

AIR CONDITIONING AND VENTILATING SUPPLY SYSTEMS																																																	
SYSTEM NO.	LOCATION	SERVICE	CENTRIFUGAL FANS										AIR FILTERS					HEATING COILS										COOLING COILS																					
			C.F.M.	STATIC PRESSURE INCHES OF WATER	MAXIMUM OUTLET VELOCITY F.P.M.	F.W. R.P.M.	DIRECTION OF DISCHARGE	CLASS	ARRANGEMENT	WHEEL DIAMETER IN INCHES	TYPE	B.H.P.	MOTOR				MAX. CLEAN PRESSURE DROP	FINAL FILTER PRESS. DROP	EFFICIENCY BASED ON ASHRAE 52-76 STANDARD	MAXIMUM FACE VELOCITY F.P.M.	MODEL	ENTERING AIR TEMP. ° F D.B.	LEAVING AIR TEMP. ° F D.B.	MAXIMUM AIR PRESSURE DROP INCHES OF WATER	TOTAL FACE AREA SQ. FEET	FACE VELOCITY F.P.M.	M.B.H.	NUMBER OF ROWS DEEP	FMS PER FOOT	AIR SIDE				WATER SIDE				NUMBER OF SECTIONS	SECTION HEIGHT IN INCHES	NOMINAL TUBE L/4TH	TOTAL FACE AREA SQ. FT.								
													H.P.	R.P.M.	VOLTS	PHASE														H.Z.	"W.C."	"W.C."	%	D.B.	W.B.	D.B.	W.B.					D.B.	W.B.	D.B.	W.B.				
																																														ENTERING TEMP. ° F	LEAVING TEMP. ° F	MAX. PRESSURE DROP INCHES OF WATER	BRANCH C.P.M.
ACS-41-1	MER 41N TOWER ONE	M. PERIPHERAL 25-50th FLOOR	47,500	10.5	2,830	1,290	TOP HORIZ	III	3	40.25	OWND	102	125	1,750	460	3	60	.30	1.5	85	500	RGA FLOW 100	10	75	0.25	3,470	5	4	37	6'-6"	678	3,335	2	110	90.5	71.1	68.0	47.0	1.19	377	38	57	14.7	4	44.5	44.5	6'-6"	89	
ACS-41N	MER 41N TOWER ONE	SUB-STATION	12,000	2.5	-	1,100	PLENUM	I	PLUG	30	SWIS	6	10	1,750	460	3	60	.30	1.0	30	500	30/30	-	-	-	-	-	-	-	-	-	-	-	-	79	66	60	58	1.02	67	38	49	7.6	2	23	44.5	44.5	6'-0"	22.6
ACS-41-8	MER 41S TOWER ONE	M.W. INTERIOR 43-50th FLOOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	66	60	58	1.02	67	38	49	7.6	2	23	44.5	44.5	6'-0"	22.6		
ACS-41S	MER 41S TOWER ONE	SUB-STATION	12,000	2.5	-	1,100	PLENUM	I	PLUG	30	SWIS	6	10	1,750	460	3	60	.30	1.0	30	500	30/30	-	-	-	-	-	-	-	-	-	-	-	-	79	66	60	58	1.02	67	38	49	7.6	2	23	44.5	44.5	6'-0"	163.3
ACS-41-3	MER 41S TOWER ONE	S. PERIPHERAL 25-50th FLOOR	58,500	10.5	2,757	1,155	TOP HORIZ	III	3	44.5	OWND	122	150	1,750	460	3	60	.30	1.5	85	500	RGA FLOW 100	10	75	0.28	4,130	5	4	37	7'-6"	80.7	700	3,964	2	138	80.0	70.6	48.4	47.9	1.14	419	38	57.0	21.2	4	44.5	44.5	7'-6"	108
ACS-75M	MER 75M TOWER ONE	SUB-STATION	12,000	2.5	-	1,100	PLENUM	I	PLUG	30	SWIS	6	10	1,750	460	3	60	.30	1.0	30	500	30/30	-	-	-	-	-	-	-	-	-	-	-	-	79	66	60	58	1.02	67	38	49	7.6	2	23	44.5	44.5	6'-0"	22.6
ACS-75-1	MER 75M TOWER ONE	M. PERIPHERAL 59-91st FLOOR	46,000	10.5	2,741	1,250	TOP HORIZ	III	3	40.25	OWND	99	125	1,750	460	3	60	.30	1.5	85	500	RGA FLOW 100	10	75	0.23	3,360	5	4	37	6'-6"	657	3,230	2	108	90.5	71.7	68.0	47.0	1.12	366	38	57.0	15.6	4	44.5	44.5	6'-6"	89	
ACS-75S	MER 75S TOWER ONE	SUB-STATION	12,000	2.5	-	1,100	PLENUM	I	PLUG	30	SWIS	6	10	1,750	460	3	60	.30	1.0	30																													

- NOTES: 1. ALL SUB-STATION UNITS SHALL HAVE THE SUPPLY FAN SUPPORTED FROM THE UNITS STRUCTURE WITH VIBRATION ISOLATORS.
2. PROVIDE 60" X 48" SAFETY BAR GRATING IN THE FLOOR OPENING OF EACH SUB-STATION UNIT.

RETURN AND EXHAUST FAN SYSTEMS																	
SYSTEM NO	LOCATION	SERVICE	C.F.M. AT 70"	STATIC PRESSURE INCHES OF WATER	MAXIMUM OUTLET VELOCITY F.P.M.	R.P.M.	FAN				MOTOR				REMARKS		
							DIRECTION OF DISCHARGE	ARRANGEMENT	CLASS	WHEEL DIAMETER INCHES	B.H.P.	MINIMUM H.P.	R.P.M.	VOLTS		PHASE	HZ
E-41-20	MER 41N TOWER ONE	ELECTRICAL SUBSTATION NORTH - EXHAUST	12,000	1	-	600	PLENUM	PLUS	1	36.5	3.3	5	1,750	460	3	60	
E-41-21	MER 41S TOWER ONE	ELECTRICAL SUBSTATION SOUTH - EXHAUST	12,000	1	-	600			1	36.5	3.3	5	1,750	460	3	60	
E-75-21	MER 75N TOWER ONE	ELECTRICAL SUBSTATION NORTH - EXHAUST	12,000	1	-	600			1	38.5	3.3	5	1,750	460	3	60	
E-75-22	MER 75S TOWER ONE	ELECTRICAL SUBSTATION SOUTH - EXHAUST	12,000	1	-	600			1	36.5	3.3	5	1,750	460	3	60	
E-75-22	MER 75W TOWER TWO	ELECTRICAL SUBSTATION WEST - EXHAUST	12,000	1	-	600			1	36.5	3.3	5	1,750	460	3	60	
E-75-21	MER 75E TOWER TWO	ELECTRICAL SUBSTATION EAST - EXHAUST	12,000	1	-	600			1	38.5	3.3	5	1,750	460	3	60	

SILENCERS										
SYSTEM NO.	LOCATION	FACE DIMENSIONS		LENGTH	FLOW CFM	SILENCER P.O.	DYNAM.			
		WIDTH	HEIGHT				63	125	250	500
ACS-41-1	MER 41N TOWER ONE	44"	86"	ELBOW	47,500	0.21	7	11	17	25
ACS-41-3	MER 41S TOWER ONE	48"	90"		56,500	0.25	8			
ACS-75-1	MER 75N TOWER ONE	44"	78"		48,000	0.24	7			
ACS-75-3	MER 75S TOWER ONE	48"	90"		55,000	0.24	6			
ACS-75-4	MER 75W TOWER TWO	44"	86"		48,500	0.2	7			
ACS-75-2	MER 75E TOWER TWO	48"	90"		55,000	0.24	8			